

CLAIMS

1. Heart prosthesis/artificial heart comprising a series of drawing and pressing means and intended to be implanted in a patient to replace the pumping activity of a heart, whereby comprises at least two compartments (5, 6, 12, 13, 25, 26, 27, 28),
 5 substantially surrounded by rigid-wall provided house (2, 3, 31) containing a number of drawing and/or pressing devices (10, 48, 50),

characterized in

that it comprises two halves, comprising an atrium (25, 26), and ventricles (27, 28) respectively, separated with a valve (29, 40) provided plate (37) which plate (37) is
 10 arranged to be able to be moved between the ventricles (27, 28) and the atriums (25, 26) by means of drawing and/or pressing devices (48, 50) arranged in said rigid wall provided house (31).

2. Heart prosthesis according to claim1,

15 **characterized in**

that it comprises four compartments (5, 6, 12, 13, and 25, 26, 27, 28, respectively).

3. Heart prosthesis according to claim1,

characterized in

20 that the drawing and/or pressing devices (10, 48, 50) are drawing and pressing electromechanical devices, respectively, including electro-magnets.

4. Heart prosthesis according to claim1,

characterized in

25 that said plate (37) is arranged to be moved by means of electro-magnets (48) or a hydraulic device arranged in said wall (31).

5. Heart prosthesis according to claim1,

characterized in

30 that the drawing and/or pressing devices are drawing, and pressing, respectively, hydraulically activated pistons.

6. Heart prosthesis according to claim1,

characterized in

35 that it is arranged to be controlled digitally via a soft-ware present in a circuit board (22) in a diastole, atrium systole, and systole phase, respectively.

7. Heart prosthesis according to claim1,

characterized in

40 that it is supplied with energy from one or more DC batteries.